

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2018 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

***Sacramento River Basin***

<b>ST0006</b>	Overall LMA Rating	Total LMA Miles						
<b>Sutter Maintenance Yard Nelson Bend</b>	<b>U</b>	<b>0.50</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.06	0.84	3.42	687.99%				
Trim / Thin Trees		0.74	2.96	595.45%				
Encroachments						0.08		
<i>LMA Totals:</i>	0.06	1.58	6.38	1283.44%	0.00	0.08	0.00	0.00

  

<b>Unit No. 01 Feather River West Levee - Nelson Bend</b>	Overall Unit Rating	Total Unit Miles						
<b>ST0006</b>	<b>U</b>	<b>0.50</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.06	0.84	3.42	687.99%				
Trim / Thin Trees		0.74	2.96	595.45%				
Encroachments						0.08		
<i>Unit Totals:</i>	0.06	1.58	6.38	1283.44%	0.00	0.08	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2018 Levee Inspection Results**

**Sutter Maintenance Yard Nelson Bend**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Sutter Maintenance Yard Nelson Bend**

Waterway			Bank	Unit Miles
Unit No. 01 Feather River West Levee - Nelson Bend				0.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	4/4/2018 - 4/4/2018		9/18/2018 - 9/18/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Steve Beckley		Steve Beckley	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start		Rating **	A	Issue No.	<b>9</b>
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0006_01_s _ 2014_9				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has copies of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>10</b>
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0006_01_s _ 2014_10				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has flood fight supplies on hand at their equipment yard.					

No Photos

LM Start		Rating **	A	Issue No.	<b>11</b>
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0006_01_s _ 2014_11				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has attended flood fight training.					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

## Sutter Maintenance Yard Nelson Bend

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.02	Rating **	U	Issue No.	15 (cont)	
LM End	0.42	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.886883 °		38.881287 °
				-121.614797 °		-121.614490 °
DWR ID	DWR_ST0006_01_f_2015_15					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove the annual vegetation and wild growth. Fall 2018.						

Photo 2 of 2 : FA\_2018\_ST0006\_471\_15\_20180918\_00006.jpg



View of the vegetation along the waterside slope looking downstream, Spring 2018.

LM Start	0.02	Rating **	U	Issue No.	2
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.886883 °	38.880833 °
				-121.614797 °	-121.614387 °
DWR ID	DWR_ST0006_01_f_2015_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the annual vegetation and wild growth. Fall 2018.					

Photo 1 of 2 : FA\_2018\_ST0006\_471\_2\_20181003\_00015.jpg



View of the vegetation along the landside slope looking downstream, Fall 2018.

LM Start	<b>0.02</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_ST0006\_471\_2\_20180918\_00002.jpg



View of the vegetation along the landside slope looking downstream, Spring 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.06	Rating **	M	Issue No.	4
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.886277°	38.886277°
				-121.615129°	-121.615129°
DWR ID	DWR_ST0006_01_s_2012_4				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.13	Rating **	U	Issue No.	1
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.885396°	38.880295°
				-121.615595°	-121.614147°
DWR ID	DWR_ST0006_01_f_2017_1				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees 5 feet for access and visibility, Fall 2018.					

Photo 1 of 2 : FA\_2018\_ST0006\_471\_1\_20181003\_00016.jpg



View looking downstream waterside of the over growth of trees, Fall 2018.

LM Start	<b>0.13</b>	Rating **	U	Issue No.	<b>1 (cont)</b>
LM End	<b>0.50</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_ST0006\_471\_1\_20180918\_00001.jpg



View looking downstream waterside of the over growth of trees, Spring 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.13	Rating **	U	Issue No.	3
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.885396 °	38.880295 °
				-121.615595 °	-121.614147 °
DWR ID	DWR_ST0006_01_f_2017_3				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees 5 feet for access and visibility, Fall 2018.					

LM Start	<b>0.13</b>	Rating **	U	Issue No.	<b>3 (cont)</b>
LM End	<b>0.50</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA\_2018\_ST0006\_471\_3\_20181003\_00017.jpg



View looking downstream landside of the over growth of trees, Fall 2018.

Photo 2 of 2 : FA\_2018\_ST0006\_471\_3\_20180918\_00003.jpg



View looking downstream landside of the over growth of trees, Spring 2018.

LM Start	0.15	Rating **	M	Issue No.	5
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.885100 °	38.885100 °
				-121.615722 °	-121.615722 °
DWR ID	DWR_ST0006_01_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.16	Rating **	M	Issue No.	12
LM End	0.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884946 °	38.884946 °
				-121.615761 °	-121.615761 °
DWR ID	DWR_ST0006_01_s_2015_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.18	Rating **	M	Issue No.	13
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884577 °	38.884577 °
				-121.615761 °	-121.615761 °
DWR ID	DWR_ST0006_01_s _ 2015_13				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.21	Rating **	M	Issue No.	14
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884151 °	38.884151 °
				-121.615732 °	-121.615732 °
DWR ID	DWR_ST0006_01_s_2015_14				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.34	Rating **	M	Issue No.	6
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.882398 °	38.882398 °
				-121.614966 °	-121.614966 °
DWR ID	DWR_ST0006_01_s_2012_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.40	Rating **	U	Issue No.	16
LM End	0.46	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.881638 °	38.880795 °
				-121.614647 °	-121.614427 °
DWR ID	DWR_ST0006_01_f_2015_16				
Comment Code					
DE : Debris					
Inspector Comment					
The large pipe is still laying along the waterside berm, Fall 2018.					

Photo 1 of 2 : FA\_2018\_ST0006\_471\_16\_20181003\_00018.jpg



View of the pipes and new c-container along the waterside shoulder looking downstream. Fall 2018.

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>16 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : FA\_2018\_ST0006\_471\_16\_20180918\_00007.jpg



View of the pipes along the waterside berm looking downstream. Spring 2018.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.47	Rating **	U	Issue No.	8
LM End	0.47	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.880664 °	38.880664 °
				-121.614335 °	-121.614335 °
DWR ID	DWR_ST0006_01_s_2012_8				
Comment Code					
BU : Building					
Inspector Comment					
The building is directly behind the pipes that are laying along the waterside berm. Fall 2018.					

Photo 1 of 2 : FA\_2018\_ST0006\_471\_8\_20181003\_00019.jpg



View of the building directly behind the pipes on the waterside berm looking downstream. Fall 2018.

LM Start	<b>0.47</b>	Rating **	U	Issue No.	<b>8 (cont)</b>
LM End	<b>0.47</b>	Issue Type +	En	Location *	CR

Photo 2 of 2 : FA\_2018\_ST0006\_471\_8\_20180918\_00005.jpg



View of the building directly behind the pipes on the waterside berm looking downstream. Spring 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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